

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083540.D
 Acq On : 28 Aug 2024 16:56
 Operator : JC\MD
 Sample : P3715-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 29 00:53:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:23:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

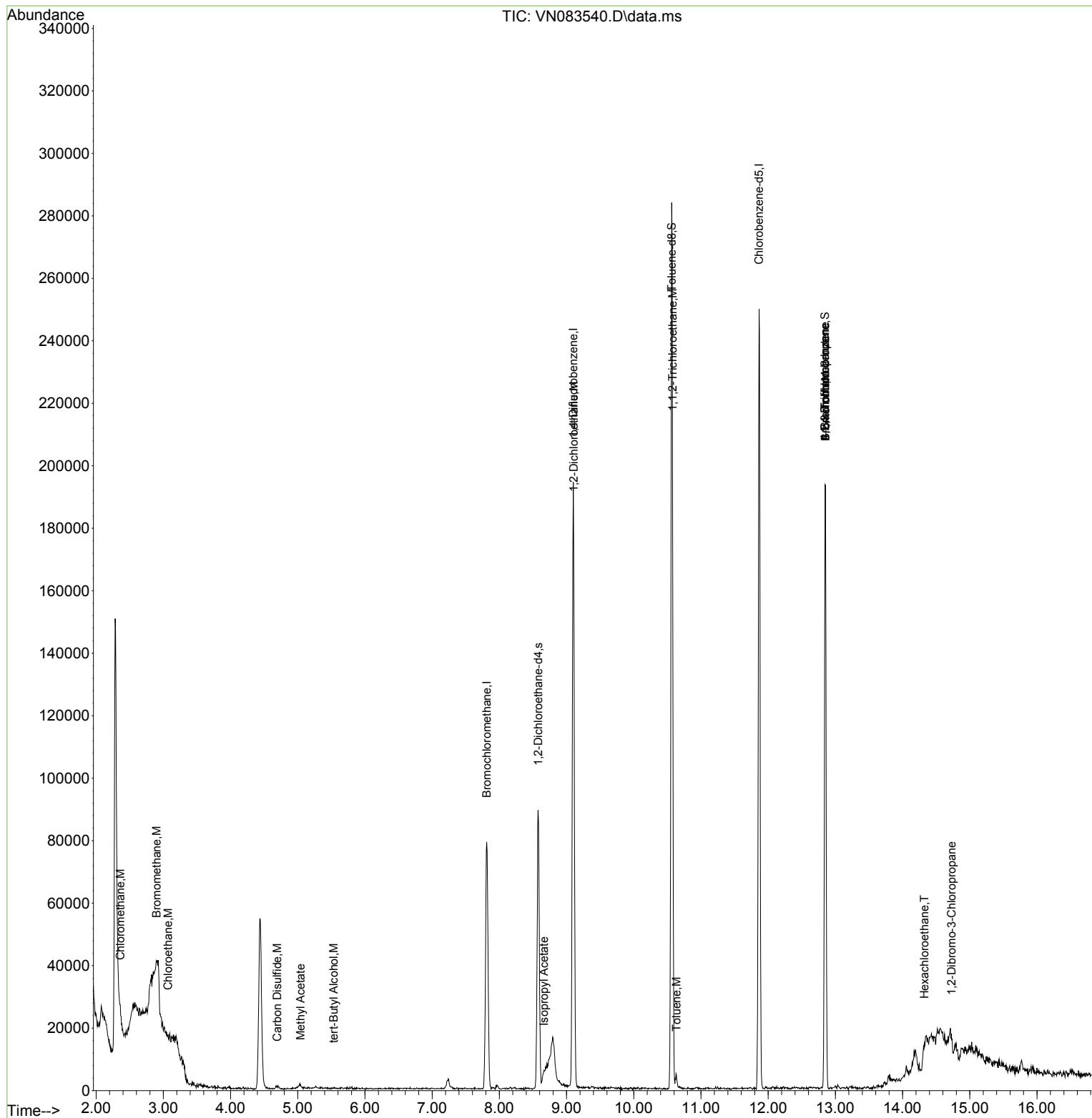
Internal Standards						
1) Bromochloromethane	7.812	128	27157	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	160231	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	138177	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77381	31.702	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 105.667%	
60) 4-Bromofluorobenzene	12.847	95	70544	28.837	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 96.133%	
63) Toluene-d8	10.565	98	194702	30.522	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.733%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1054	0.562	ug/l #	43
5) Bromomethane	2.901	94	469	0.489	ug/l #	4
6) Chloroethane	3.071	64	551	0.427	ug/l #	65
12) Methyl Acetate	5.042	43	1187	0.406	ug/l	91
16) Carbon Disulfide	4.694	76	1629	0.355	ug/l #	78
23) tert-Butyl Alcohol	5.536	59	89	0.232	ug/l #	100
36) 1,2-Dichloroethane	9.106	62	6323	2.223	ug/l #	72
44) Isopropyl Acetate	8.665	43	4074	0.696	ug/l #	43
50) 1,1,2-Trichloroethane	10.576	97	5838	3.272	ug/l #	1
56) Bromoform	12.853	173	380	0.278	ug/l #	1
62) Toluene	10.635	91	3127	0.391	ug/l	95
72) 1,2,3-Trichloropropane	12.847	75	38287	17.511	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	38287	40.352	ug/l #	12
86) Hexachloroethane	14.323	117	2227	1.539	ug/l #	11
88) 1,2-Dibromo-3-Chloropr...	14.729	75	251	0.434	ug/l #	4

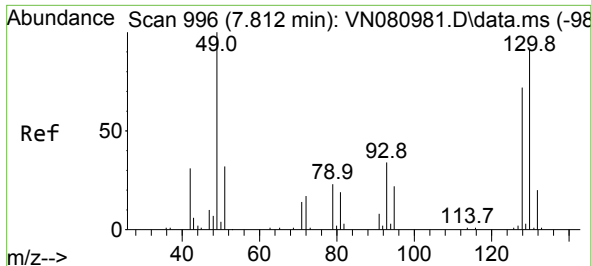
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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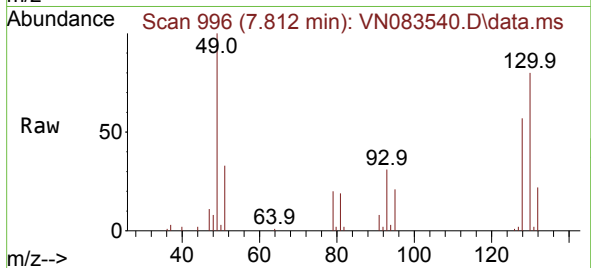
Quant Time: Aug 29 00:53:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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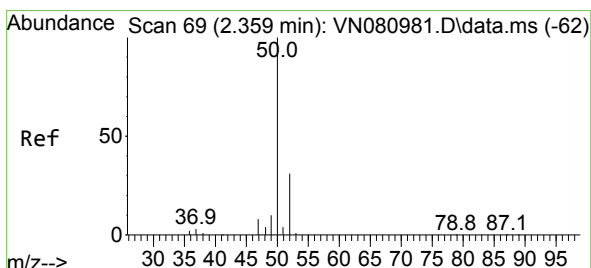
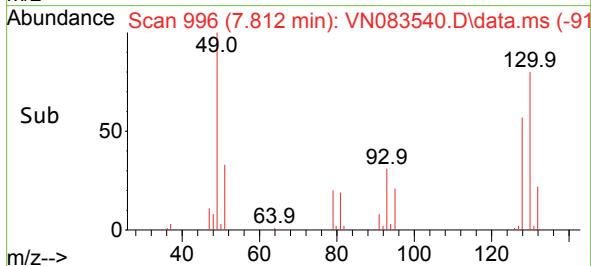
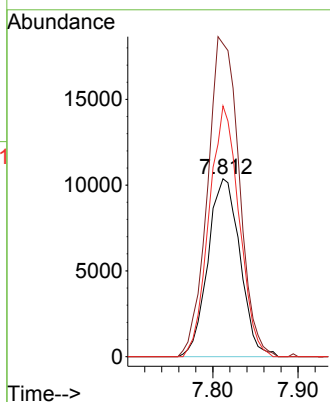


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :

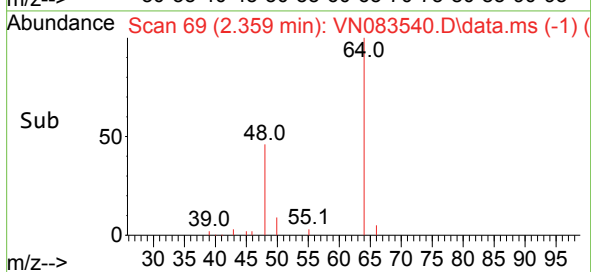
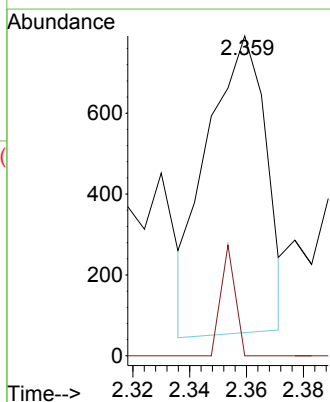
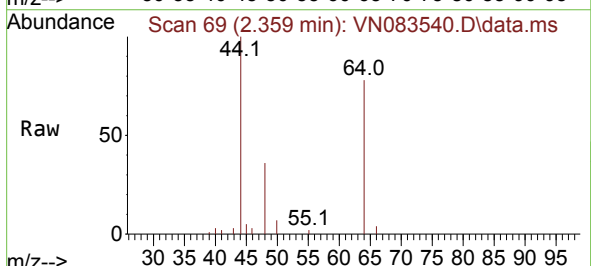


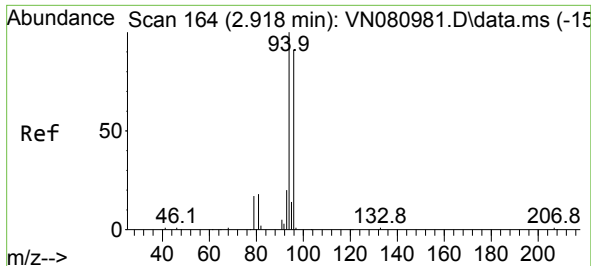
Tgt Ion	Ratio	Lower	Upper
128	100		
49	177.5	0.0	403.7
130	132.2	0.0	323.3



#3
Chloromethane
Concen: 0.562 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

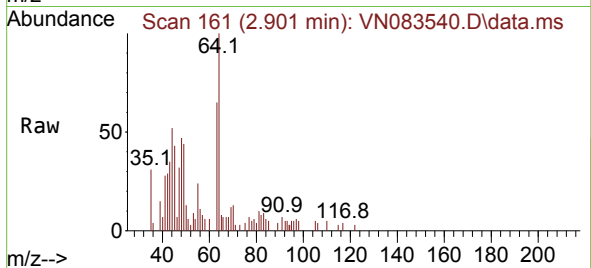
Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	25.4	38.0



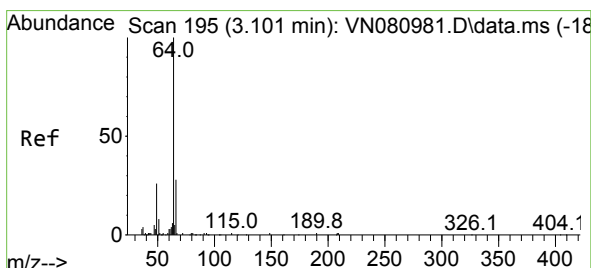
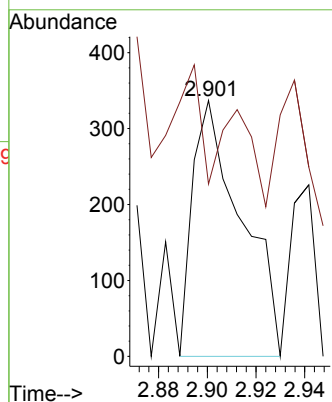
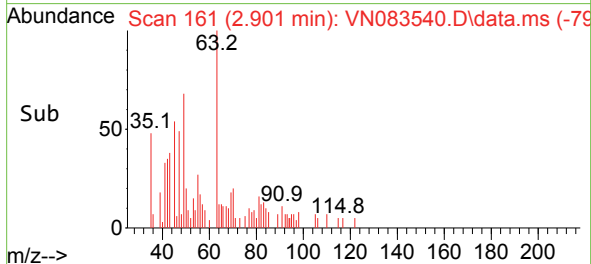


#5
Bromomethane
Concen: 0.489 ug/l
RT: 2.901 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :

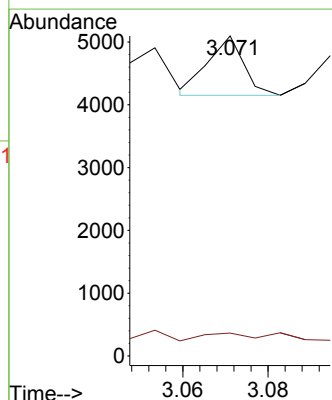
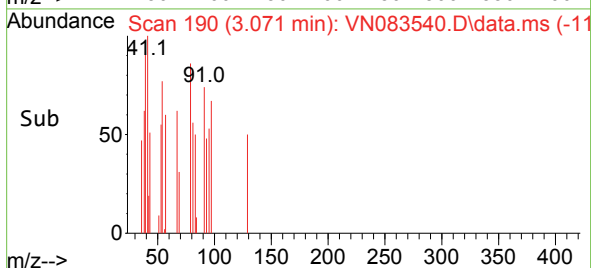
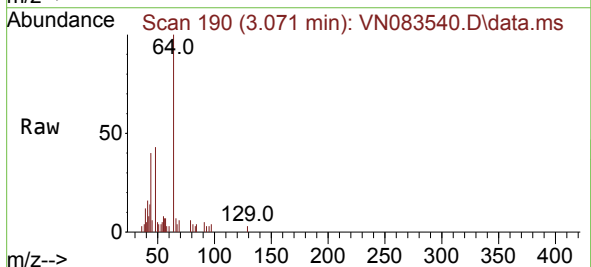


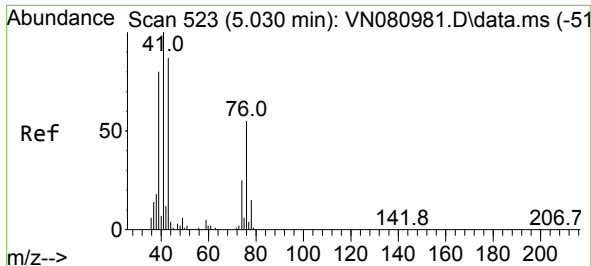
Tgt Ion: 94 Resp: 469
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#



#6
Chloroethane
Concen: 0.427 ug/l
RT: 3.071 min Scan# 190
Delta R.T. -0.029 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

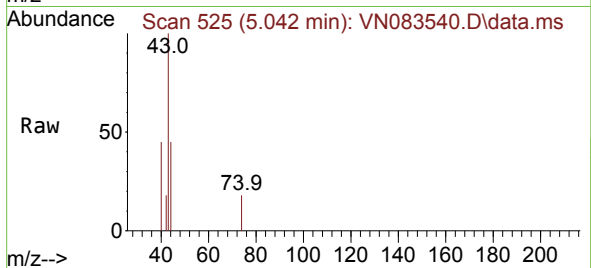
Tgt Ion: 64 Resp: 551
Ion Ratio Lower Upper
64 100
66 13.2 26.7 40.1#



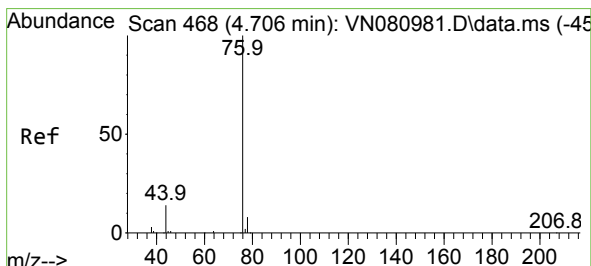
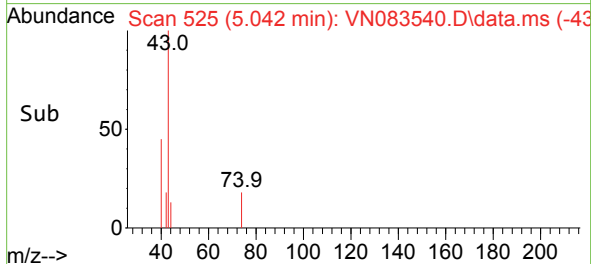
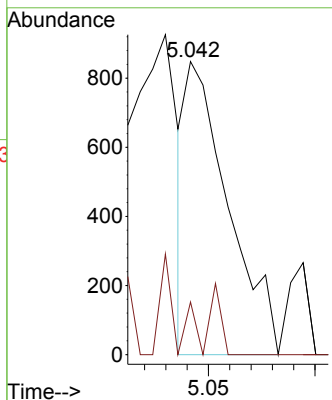


#12
Methyl Acetate
Concen: 0.406 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :

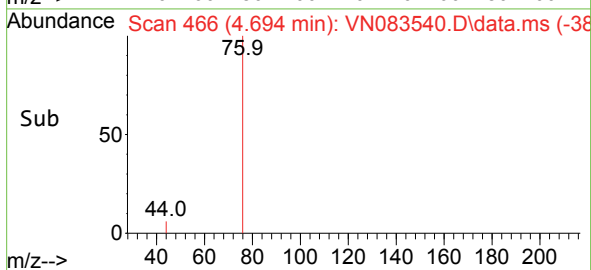
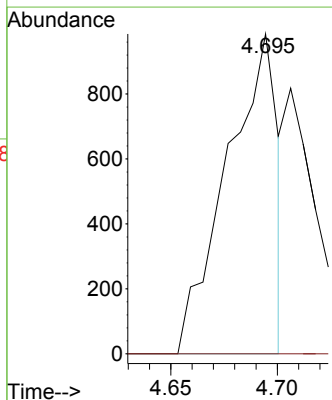
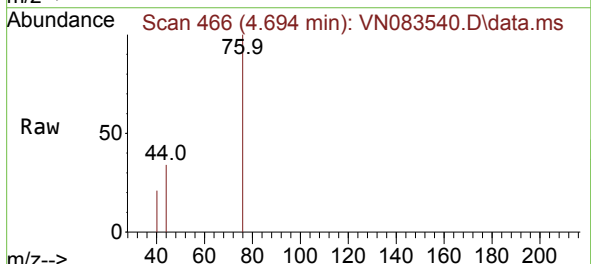


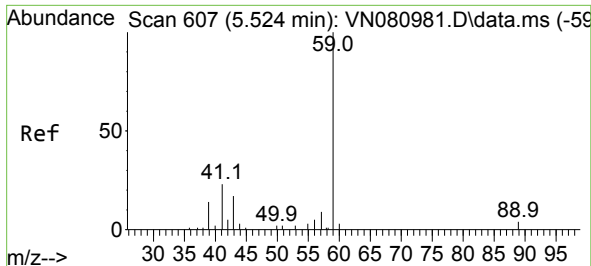
Tgt Ion: 43 Resp: 1187
Ion Ratio Lower Upper
43 100
74 29.1 27.7 41.5



#16
Carbon Disulfide
Concen: 0.355 ug/l
RT: 4.694 min Scan# 466
Delta R.T. -0.012 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

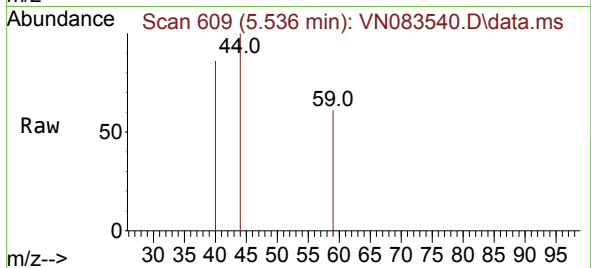
Tgt Ion: 76 Resp: 1629
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



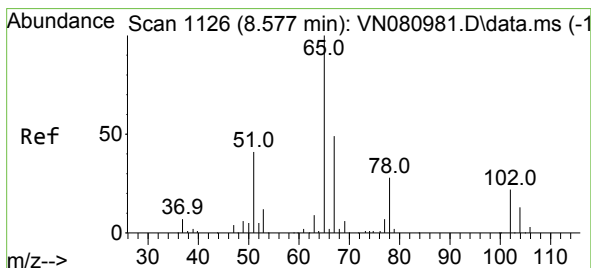
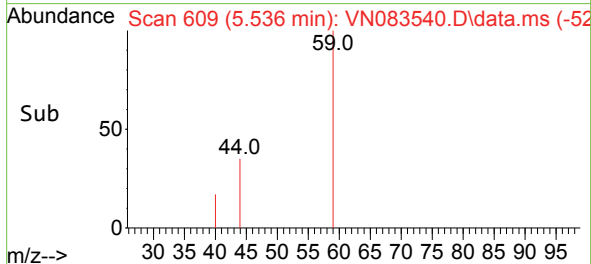
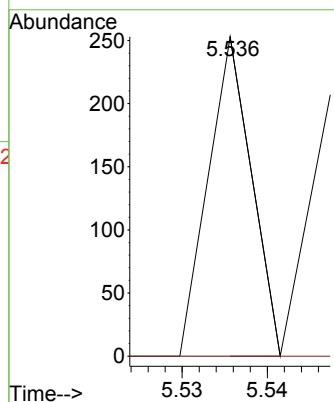


#23
tert-Butyl Alcohol
Concen: 0.232 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :

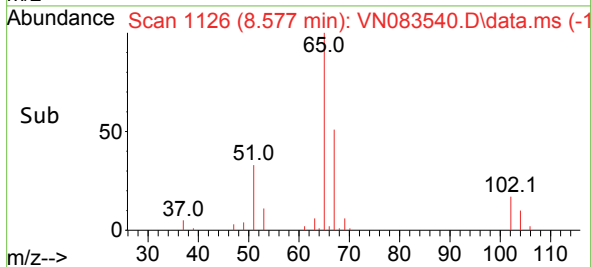
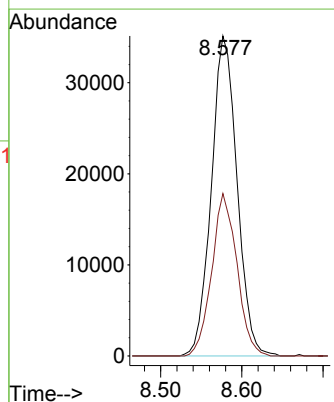
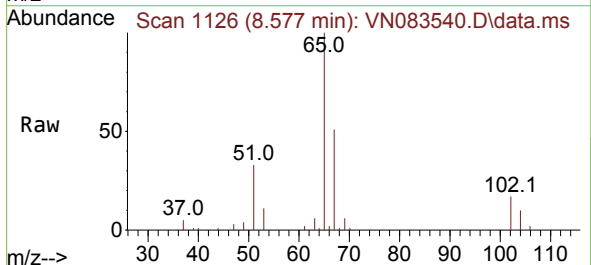


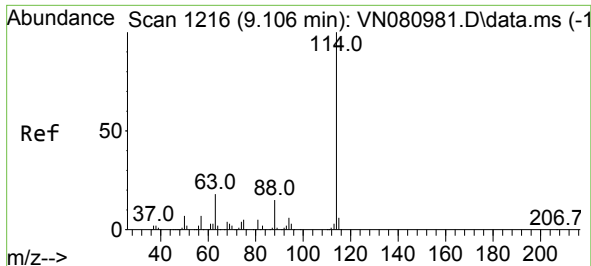
Tgt Ion: 59 Resp: 89
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 31.702 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Tgt Ion: 65 Resp: 77381
Ion Ratio Lower Upper
65 100
67 49.6 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.006 min

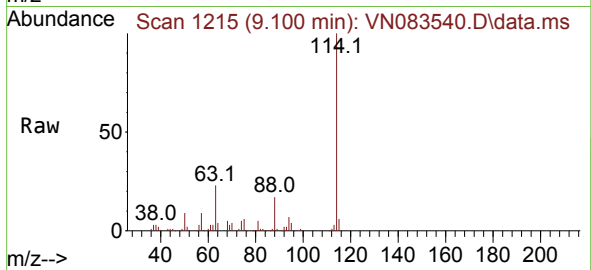
Lab File: VN083540.D

Acq: 28 Aug 2024 16:56

Instrument :

MSVOA_N

ClientSampleId :



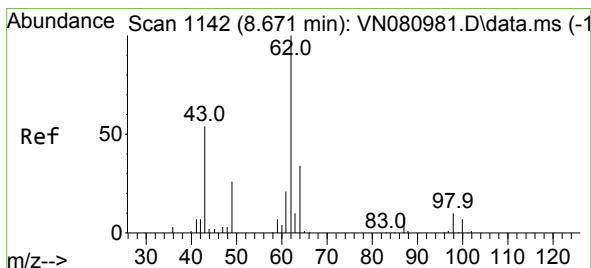
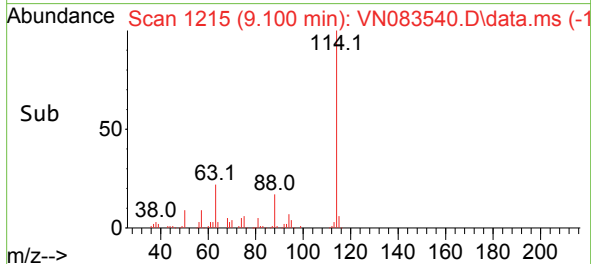
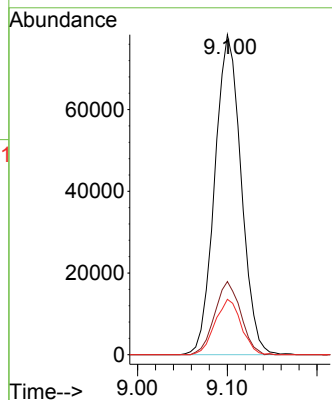
Tgt Ion:114 Resp: 160231

Ion Ratio Lower Upper

114 100

63 22.5 15.9 23.9

88 17.0 12.7 19.1



#36

1,2-Dichloroethane

Concen: 2.223 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.435 min

Lab File: VN083540.D

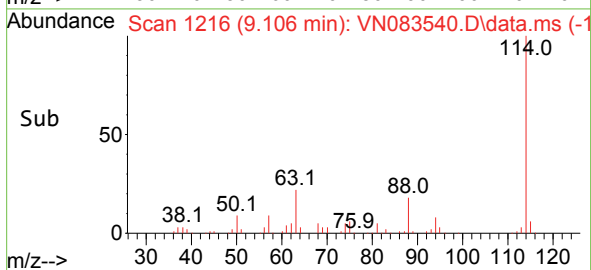
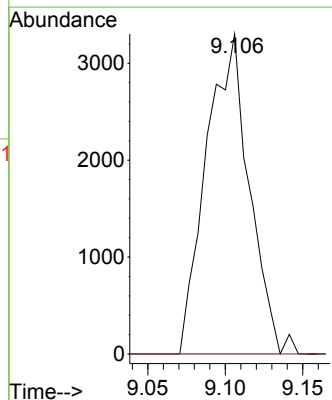
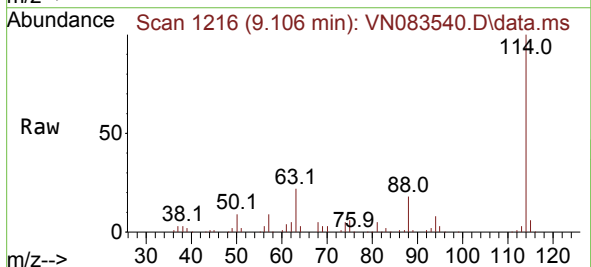
Acq: 28 Aug 2024 16:56

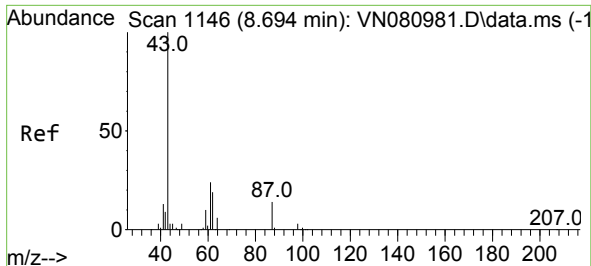
Tgt Ion: 62 Resp: 6323

Ion Ratio Lower Upper

62 100

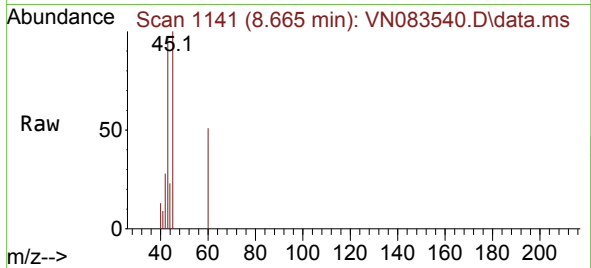
98 0.0 8.2 12.4#



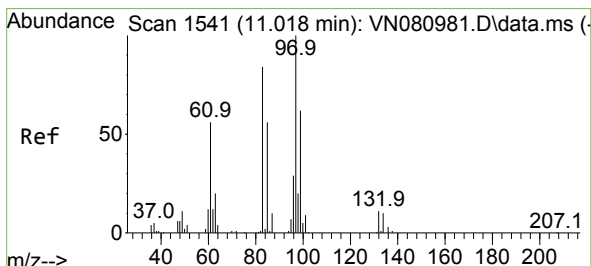
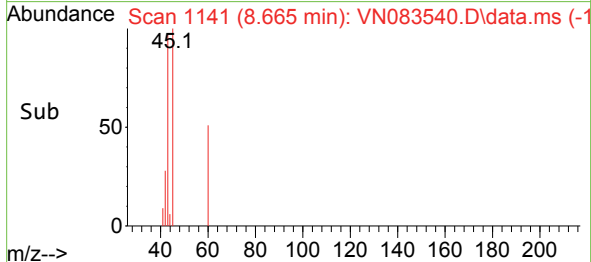
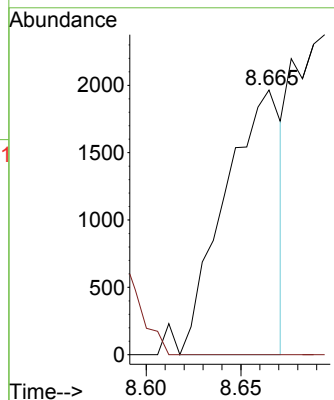


#44
Isopropyl Acetate
Concen: 0.696 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.029 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :

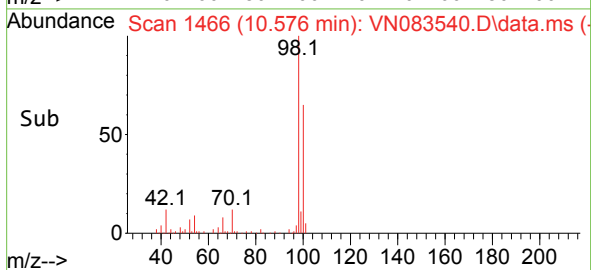
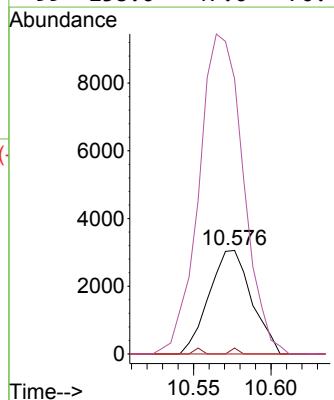
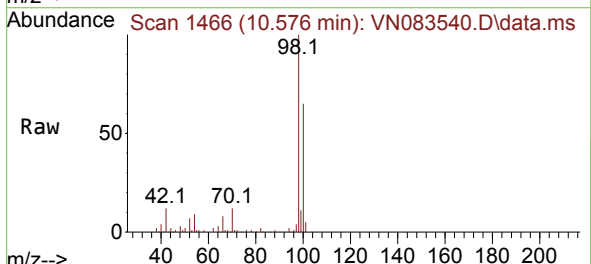


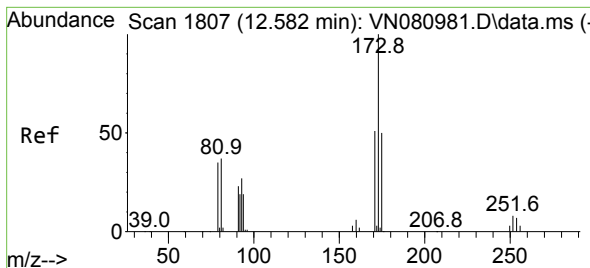
Tgt Ion: 43 Resp: 4074
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.4#



#50
1,1,2-Trichloroethane
Concen: 3.272 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Tgt Ion: 97 Resp: 5838
Ion Ratio Lower Upper
97 100
83 5.7 68.1 102.1#
85 0.0 41.8 62.6#
99 258.0 47.0 70.4#





#56

Bromoform

Concen: 0.278 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN083540.D

Acq: 28 Aug 2024 16:56

Instrument :

MSVOA_N

ClientSampleId :

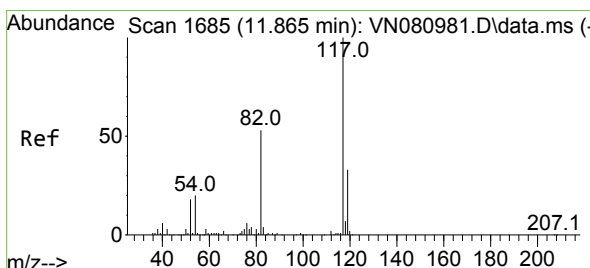
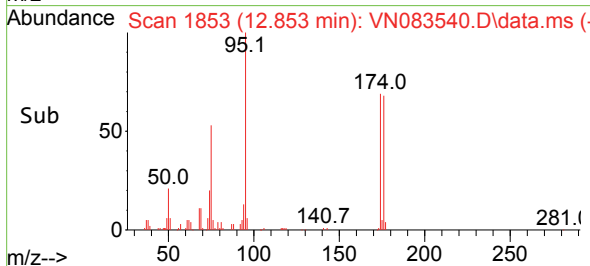
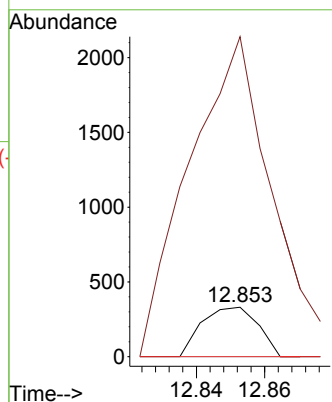
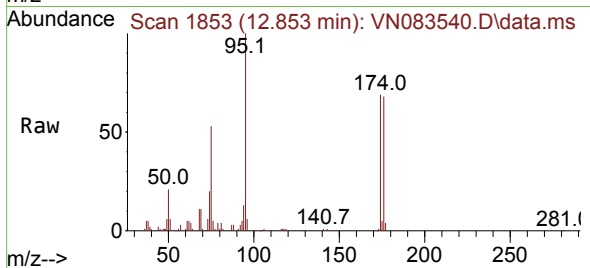
Tgt Ion:173 Resp: 380

Ion Ratio Lower Upper

173 100

175 942.4 40.0 60.0#

254 0.0 8.3 12.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN083540.D

Acq: 28 Aug 2024 16:56

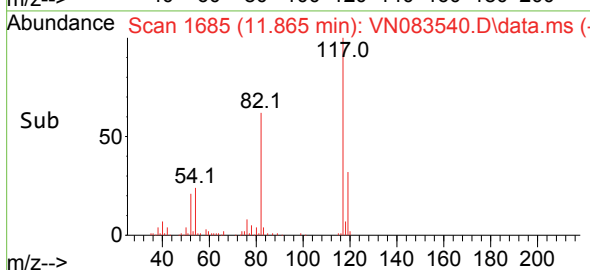
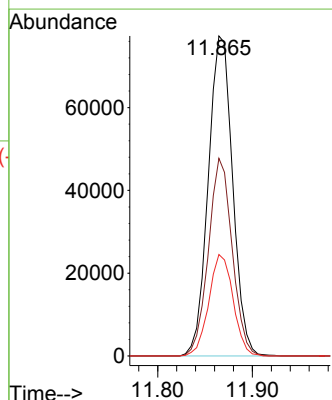
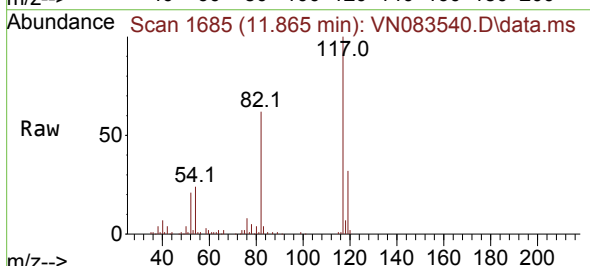
Tgt Ion:117 Resp: 138177

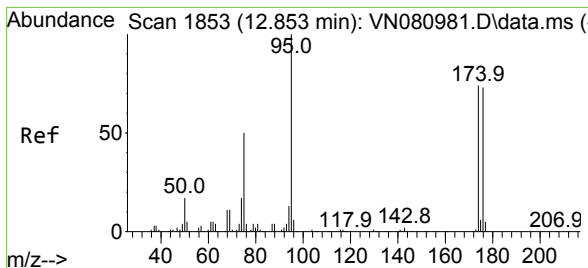
Ion Ratio Lower Upper

117 100

82 60.3 46.6 69.8

119 31.5 25.4 38.2

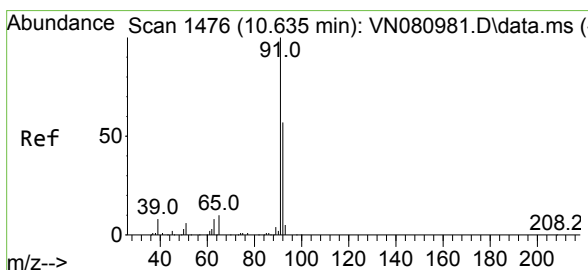
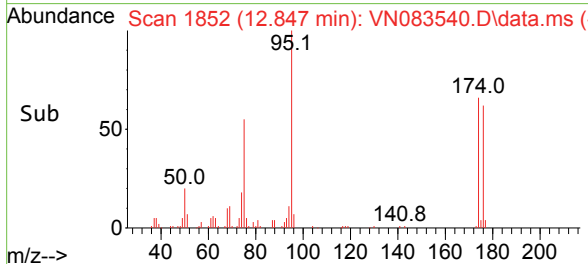
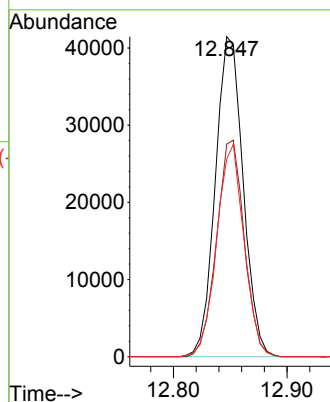
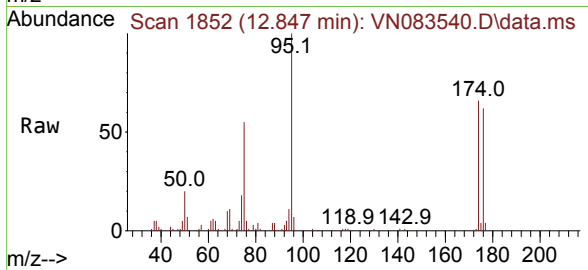




#60
4-Bromofluorobenzene
Concen: 28.837 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

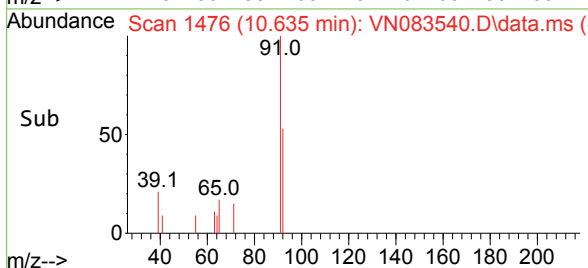
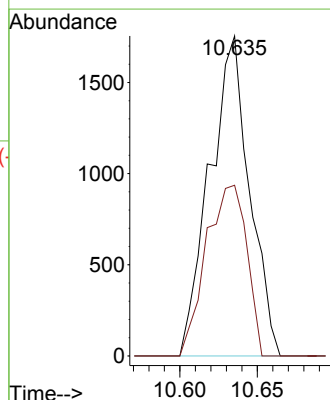
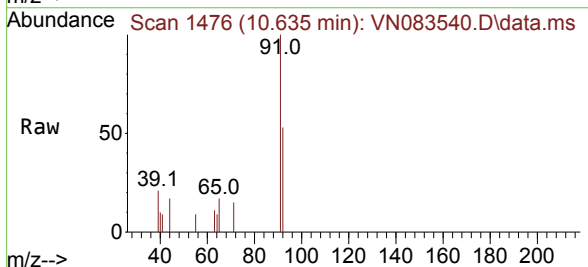
Instrument :
MSVOA_N
ClientSampleId :

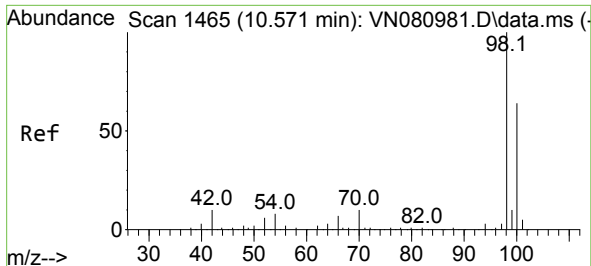
Tgt Ion: 95 Resp: 70544
Ion Ratio Lower Upper
95 100
174 67.3 60.5 90.7
176 65.3 57.8 86.6



#62
Toluene
Concen: 0.391 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Tgt Ion: 91 Resp: 3127
Ion Ratio Lower Upper
91 100
92 54.5 46.5 69.7

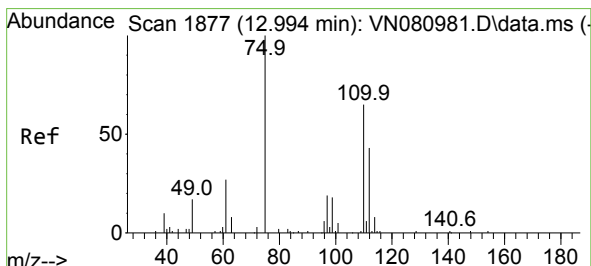
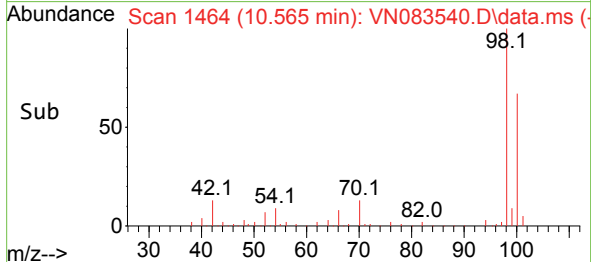
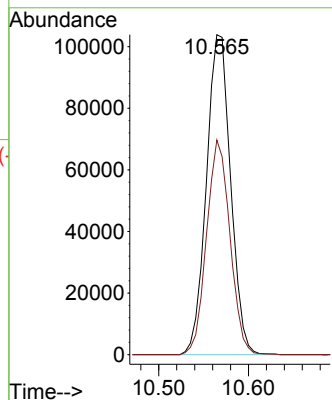
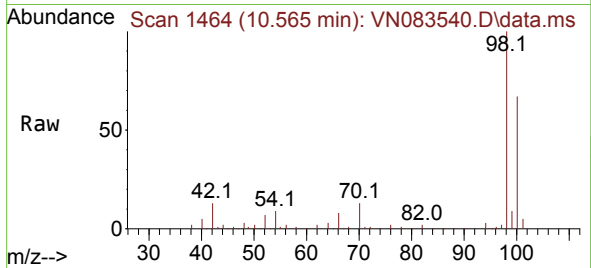




#63
Toluene-d8
Concen: 30.522 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

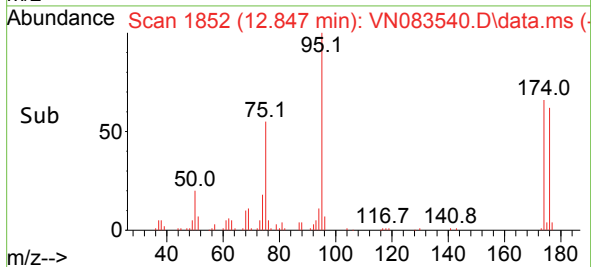
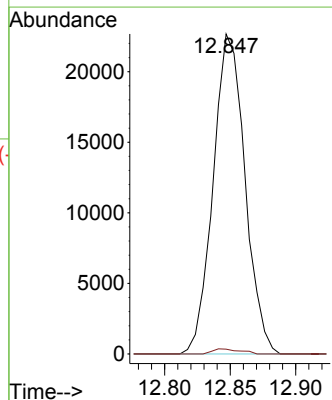
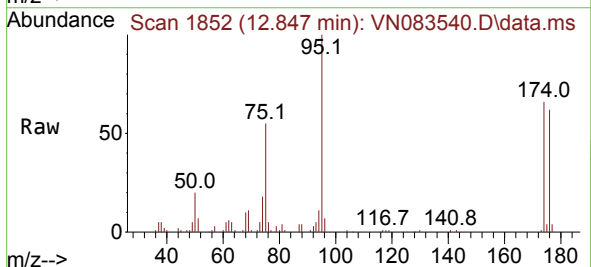
Instrument :
MSVOA_N
ClientSampleId :

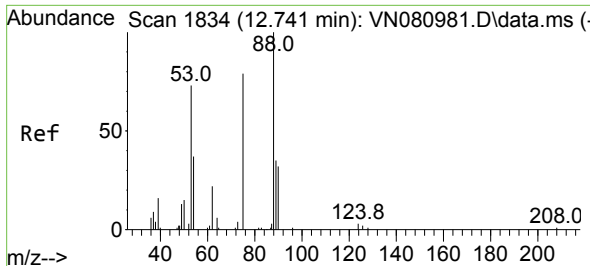
Tgt Ion: 98 Resp: 194702
Ion Ratio Lower Upper
98 100
100 64.9 52.7 79.1



#72
1,2,3-Trichloropropane
Concen: 17.511 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

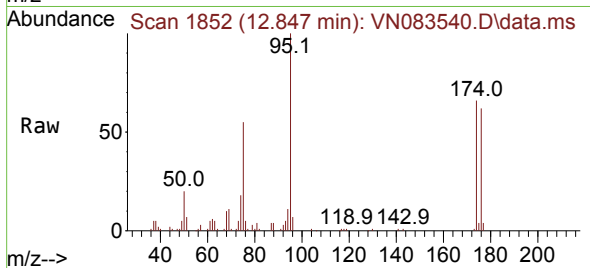
Tgt Ion: 75 Resp: 38287
Ion Ratio Lower Upper
75 100
77 1.2 0.0 367.6



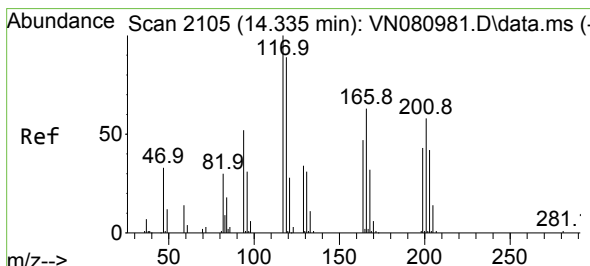
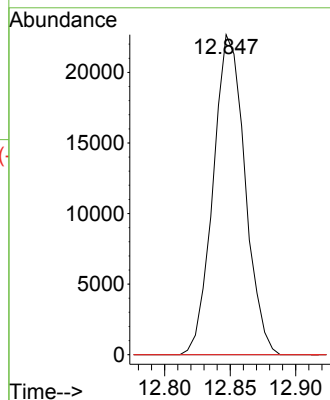
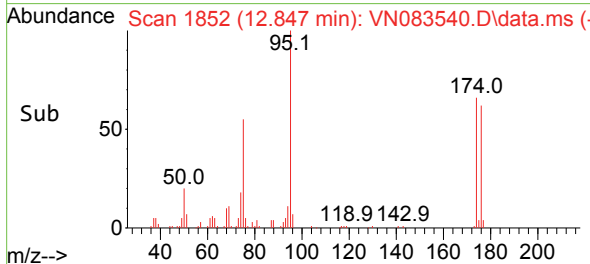


#77
t-1,4-Dichloro-2-butene
Concen: 40.352 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :

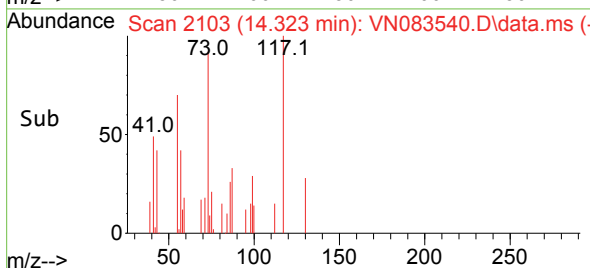
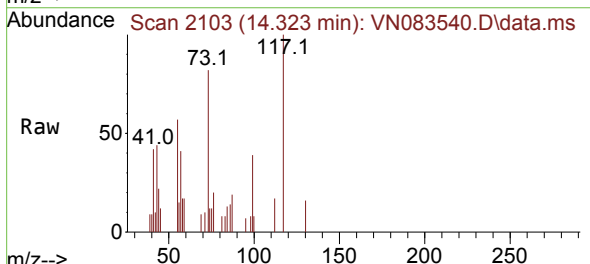


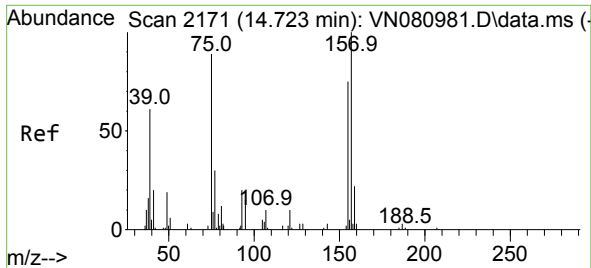
Tgt Ion: 75 Resp: 38287
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#86
Hexachloroethane
Concen: 1.539 ug/l
RT: 14.323 min Scan# 2103
Delta R.T. -0.012 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

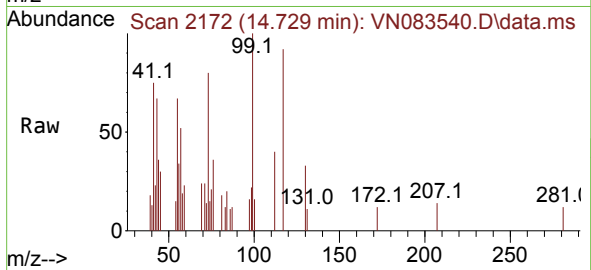
Tgt Ion: 117 Resp: 2227
Ion Ratio Lower Upper
117 100
201 0.0 38.0 114.0#





#88
1,2-Dibromo-3-Chloropropane
Concen: 0.434 ug/l
RT: 14.729 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN083540.D
Acq: 28 Aug 2024 16:56

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	75	Resp:	251
Ion	Ratio	Lower	Upper
75	100		
155	0.0	61.7	92.5#
157	0.0	83.6	125.4#

